

DAFTAR KEPUSTAKAAN

- Abbas, S.M. 2013. The influence of biostimulants on the growth and on the biochemical composition of *Vicia faba* CV. Giza 3 beans. *Romanian Biotechnological Letters*, 18(2): 8061-8068.
- Abdalla, M.M. 2013. The Potential of *Moringa oleifera* Extract As A Biostimulan In Enhancing The Growth, Bichemichal And Hormonal Contents In Rocket (*Eruca Vesicaria* Subsp. *Sativa*). *Journal of Botany*. Botany Department Faculty Of Science, Aim Shams University, Cairo, Egypt.
- Abdurachman, A. dan S. Sutono. 2005. *Teknologi pengendalian erosi lahan berlereng. dalam Teknologi Pengelolaan Lahan Kering : Menuju pertanian produktif dan ramah lingkungan*. Pusat Penelitian dan Pengembangan Tanah dan Agroklimat, Bogor.
- Akao Y. Nagakawa, Y., dan Nozawa Y. 2008. Anti Cancer effect of xsnthones from pericarp of mangosteen. *International Juornal of Molecular Sciences*, vol. 9, pp. 335-370
- Aksi Agribisnis Kanisius. 1993. *Seri Budidaya Jagung*. Penerbit Kanisius. Yogyakarta, hal. 35.
- Alkusuma and R.B. Badayos. 2003. The mineralogical characteristics of volcanic soils from North Lampung, Sumatera, Indonesia, *Jurnal Tanah dan Iklim* 21: 56-68
- Andresen, M dan Cedergreen, N. 2010. Plant Growth Is Stimulated by Tea-seed Extract. University of Copenhagen, Department of Agriculture and Ecology. *Journal of Hortscience* 45(12):1848-1853. 2010. Denmark.
- Aniszewski, T. 2007. *Alkaloids-Secret of life : Alkaloid chemistry, biological significance, applications and ecological role*. Elsevier. Amsterdam. 160-164
- Areif. P. 2009. *Agribisnis Jagung*. Pustaka Grafika. Bandung. Hal : 72.
- Badan Pusat Statistik. 2016. *Data Produksi Tanaman Pangan*. Pusat Data Statistik Pertanian. Jakarta
- Bakhtiar, A., Jubahar, J., Mahyudin, Ahmad, A. dan Rivai, H. 1994. Teknik memperoleh rutin daun singkong, limbah pabrik tapioka dan diversifikasi pemanfaatannya, *Laporan Penelitian Hibah Bersaing II*.

- Balai Penelitian Tanaman Serealia. 2012. *Statistik produksi benih jagung hibrida menurut provinsi, tahun 2006-2010*. Badan Litbang Pertanian. Jakarta
- Balai Penelitian Tanaman Serealia. 2015. *Pengumuman Permohonan Hak PVT Jagung Hibrida VARIetas Bima 19*. Badan Litbang Pertanian. Jakarta
- Brown, D.E., A.M. Rashotte, A.S. Murphy, J. Normanly, B.W. Taque, W.A. Peer, L. Taiz and G.K. Muday. 2001. Flavonoid acts as negative regulators of auxin transport in vivo in *Arabidopsis*. *Plant Physiol.* 126(2): 524-535.
- Buntoro, H.B., Rogomulyo, R., dan Trisnowati, S. 2014. Pengaruh Takaran Pupuk Kandang dan Intensitas Cahaya Terhadap Pertumbuhan dan Hasil Tanaman Putih (*Curcuma zedoaria* L.); *Jurnal Vegetalika* Vol.3 No.4, 2014 : 29 – 39. Fakultas Pertanian Universitas Gadjah Mada, Yogyakarta
- Calvo, P., L. Nelson dan J.W. Kloepper. 2014. Agricultural uses of plant biostimulants. *Plant and Soil*, 383(1-2): 3-41, DOI 10.1007/s11104-014-2131-8
- Chaverri, J. P., N. C. Rodriguez, M. O. Ibarra, and J. M. P. Rojas. 2008. Medicinal Properties of Mangosteen (*Garcinia mangostana*). *Food and Chemical Toxicology* 46: 3227–3239
- Cristofori V, Roupheal Y, Mendoza-de Gyves E, Bignami C. 2007. A simple model for estimating leaf area of hazelnut from linear measurements. *Journal of Scientia Horticulturae* 113: 221-225
- Culver, M., Fanuel, T. dan Chiteka, A.Z. 2012. Effect of Moringa Extract on Growth and Yield of Tomato. *Greener Journal of AGricultural Sciences* 2 (5) : 207-2011
- Daayf, F. dan Lattanzio, V. 2008. *Recent Advances in Polyphenol Research* Vol 1. Blackwell Publishing Ltd. 9-11
- Dewi, I.D.A.D.Y., Astuti, K.W. dan Warditiani, N.K. 2012. Identifikasi kandungan kimia ekstrak kulit buah manggis (*Garcinia mangostana* L.). *Jurnal Farmasi*. Unud. Bali.
- Dey, A. 2011. *Alstonia scholaris* R.Br. (Apocynaceae): Phytochemistry and pharmacology: A concise review. *Journal of Applied Pharmaceutical Science*. 01 (06); 2011: 51-57
- Direktur Jenderal Tanaman Pangan. 2014. *Program Dan Kegiatan Pembangunan Pertanian Tanaman Pangan Tahun 2015-2019*. Pertemuan Musyawarah Perencanaan Pembangunan Pertanian 2015, Jakarta, 13 Mei 2014. Direktorat Jenderal Tanaman Pangan, Kementerian Pertanian Republik Indonesia.

- Du Jardin, P. 2012. The science of biostimulants, A Bibliography Analysis. *Report On Biostimulant*. April 2012
- Du Jardin, P. 2015. Plant Biostimulants: Definition, concept, main categories and regulation. *Scientia Horticulturae*. <http://dx.doi.org/10.1016/j.scienta.2015.09.021>
- Duke, J. 2005. *Phytochemical and Etnobotanical Databases*, Maryland. Beltsuille Agricultural Research Center.
- Ekowati, D dan Nasir, M. Pertumbuhan Tanaman Jagung (*Zea Mays* L.) Varietas Bisi-2 Pada Pasir Reject Dan Pasir Asli Di Pantai Trisik Kulonprogo. *J. Manusia Dan Lingkungan*, Vol. 18, No.3, Nov. 2011: 220 – 231
- Ertani, A., P. Sambo., C. Nicoletto, S. Santagata, M. Schiavon and S. Nard. 2015. The Use of Organic Biostimulants in Hot Pepper Plants to Help Low Input Sustainable Agriculture. *Journal Chemical and Biological Technologies in Agriculture*. (2015) 2:11 DOI 10.1186/s40538-015-0039-z
- Faezah N, Aishah SH, Kalsom UY. 2013. Comparative evaluation of organic and inorganic fertilizers on total phenolic, total flavonoid, antioxidant activity and cyanogenic glycosides in cassava (*Manihot esculenta*). *African. Journal of Biotechnology*. 12(18): 2414-2421.
- FAO. 2015. Data luas Panen, Produksi dan Produktivitas Jagung. FAO, Rome.
- Ferrante, A., L. Incrocci, R. Maggini, G. Serra, F. Tognoni, 2004. Colour changes of fresh-cut leafy vegetables during storage. *J. Food, Agri. and Environ.*, 2(3&4).40-44.
- Fuhrman, B., M. Aviram. 2002. *Polyphenols and Flavonoids Protect LDL Against Atherogenic Modification*. In: Cadenas, E. and L. Packer, 2002. Handbook of Antioxidants. New York : Marcel Dekker, Inc. p. 303-336.
- Gawronska, H. 2008. *Biostimulators : In Modern Agriculture, General aspect*. Editorial House Wie. Jutra, Limited. Warszawa.
- Grabowska, A., E. Kunicki, A. Sekara dan A. Kalisz. 2012. The effect of cultivar and biostimulant treatment on the carrot yield and its quality. *Vegetable Crops Research Bulletin* 77: 37-48.
- Granier, C., Ture, O., Tardieu, F. 2000. Sterol regulate development and gene expression in Arabidopsis. *Plant Physiol Journal*. 131 (3): 1258-1269
- Gutzeit, H.O., dan Muller, J.L. 2014. *Plant Natural Product : Synthesis Biological Function And Practical Application*. Wiley. Blackwell.

- Hartono, R., Wirosodarmo, R., dan Susanawati, L.D. 2013. Pengaruh Teknik dan dosis pemberian pupuk organik dari *Sludge biodigester* terhadap produksi tanaman jagung (*Zea mays* L.) Varietas Bima. *Jurnal Sumber Daya Alam dan Lingkungan*. Fakultas Teknologi Pertanian Universitas Brawijaya. Malang.
- Ho CK, Huang YL, dan Chen CC., 2002, Garcinone E, a xanthone derivative, has potent cytotoxic effect against hepatocellular carcinoma cell lines, *Plant a Med.*, 68(11):975-979.
- Iriany. R. N, M.Yasin.H.G dan M.A.Takdir, 2002. *Asal, Sejarah, Evolusi dan Taksonomi Tanaman Jagung*. Balai Penelitian Tanaman Serelia. Maros. Hal 1- 15.
- Isa, A., F.S. Zaayah, dan G. Stoops. 2004. Karakteristik mikromorfologi tanah-tanah vulkanik di daerah Banten. *Jurnal Tanah dan Iklim* 22: 1–14.
- Jubahar, J., Bachritanus, Arbain, D., Bakhtiar, A., Mukhtar, M.H dan Sargent, M.V. 2006. A Flavonoid Sulfate From *Gleichenia Linearis* (Burn ; Clarke) *Asian Coordinating Group For Chemistry (ACGC) : Chemical Research Communication Vol. 20* : 6-7
- Kabera, J.N, Semana, E, Mussa, A.R, dan He, X. 2014. Plant secondary metabolites : Biosynthesis, Clasification, Function and pharmacological propeties. *Journal of pharmacy an pharmacology* 2 (2014) 377-392.
- Kalaivanan, C., M. Chandrasekaran, dan V. Venkatesalu. 2012. Effect of Seaweed Liquid Extract of *Caulerpa scalpelliformis* on Growth and Biochemical Constituents of Black gram (*Vigna radiate* (L.)Hepper). *Phykos*, 42(2): 46-53.
- Khan, W., Rayirath, U.P., Subramanian, S., Jithesh, M.N., Rayorath, P., Hodges, D.M., Alan, T.C., Craigie, J.S., Norrie, J., Prithiviraj, B. 2009. Seaweed Extracts as Biostimulants of Plant Growth and Development. *Journal of Plant Growth Regulator*. 28:386–399
- Kid, P.S., Llugany, M., Poschenrieder, C., Gunse, B., dan Barcelo, J. (2001). The role of root exudates in alumunium resistance an silicon induced amelioration of alumunium toxicity in thre varieties of maize (*Zea mays* L.). *Journal Of Experimental Botany*. Vol 52. No. 359, pp 1339-1352
- Lestari, G. W., Solichatun dan Sugiyato. 2008. Pertumbuhan, Kandungan Klorofil Dan Laju Respirasi Tanaman Garut (*Maranta arundinacea* L.) Stelah Pemberian Asam Giberelat (GA3). *Jurnal Bioteknologi* No. 5 (1) ; 1-9

- Li, R., P. Guo, M. Baum, S. Grando, dan S. Ceccarelli. 2006. Evaluation of Chlorophyll Content and Fluorescence Parameters as Indicators of Drought Tolerance in Barley. *Journal Agricultural Sciences in China* : 5 (10): 751-757.
- Liandhajani, Iwo, M.I, Sukrasno, Soemardji, A.A, dan Hanafi, M. 2013. Sunscreen Activity of α -mangostin from the Pericarps of *Garcinia mangostana*. *Journal of Applied Pharmaceutical Science* Vol. 3 (06), pp. 070-073, June, 2013 Available online at <http://www.japsonline.com> DOI: 10.7324/JAPS.2013.3610
- Maffei, M. 2010. "Sites of Synthesis, Biochemistry and Functional Role of Plant Volatiles. *South African Journal of Botany* 76 (4): 612-31.
- Mansfield, T.A. dan C.J. Atkinson. 1990. *Stomatal Behavior in Water Stressed Plants*. Dalam: Alscher dan Cumming (Eds). *Stress Response in Plant adaptation and Acclimation Mechanisms*. Wiley Liss Inc., New York.
- Marliana, E. dan S. Ismail. 2011. Studi kandungan kimia dan bioaktivitas ekstrak etanol kulit batang *Alstonia scholaris* (L). R.Br. *Seminar Nasional Kimia Bahan Alam, Samarinda*. 11-12 Oktober 2011.
- Miean, K.H., dan Mohamed, S. 2001. Flavonoid (Myricetin, Quercetin, Kaempferol, Luteolin, and Apigenin) Content of Edible Tropical Plants. *J. Agric. Food Chem.* 2001, 49, 3106–3112
- Murphy, A., Peer, W.A., and Taiz, L. 2000. Regulation of auxin transport by aminopeptidases and endogenous flavonoid. *Planta Journal* 211 ; 315-324
- Nakatani, K., Nakahata N., Arawaka T., Yasuda H., Ohizumi Y. 2002. *Inhibition of Cyclooxygenase and Prostaglandin E2 Synthesis by Gamma-Mangostin, a Xanthone Derivative in Mangosteen, in C6 Rat Glioma Cell*. Department of Pharmaceutical Molecular Biology , Tohoku University. *Biochem. Pharmacol.*
- Nuning. S. A, Syafruddin, R. Efendi., dan S. Sunarti. 2007. Morfologi Tanaman dan Fase Pertumbuhan Jagung. Balai Penelitian Tanaman Serealia Maros. Pusat Penelitian dan Pengembangan Tanaman Pangan, Departemen Pertanian. *Jurnal jagung* Hal : 16-28.
- Olaiya, C.O., Gbadegesin, M.A dan Nwauzoma, A.B. 2013. Bioregulators As Tool For Plant Growth, Development, Defence And Improvement. *African Journal Of Biotechnology*. 12 (32) : 4987-4999

- Orozco, F.G. and M.L. Failla. 2013. Biological activities and bioavailability of mangosteen xanthones: A critical review of the current evidence. *Nutrients*, 5: 3163-3183.
- Paliwal. R.L. 2000. Tropical maize morphology. In: tropical maize:improvement and production. Food and Agriculture Organization of the United Nations. Rome. p 13-20
- Palupi ER, Dedywiryanto Y. 2008. Kajian karakter toleransi cekaman kekeringan pada empat genotipe bibit kelapa sawit (*Elaeis guineensis* Jacq). *Bul Agron* 36(1): 24-32
- Parrado, J. Bautista, E.J. Romero, A.M. Garcia-Martinez, V. Friaiza, M. Tejada, 2008. Production of a carob enzymatic extract: potential use as a biofertilizer. *Bioresour. Technol.*, 99, 2312-2318.
- Peer, W. A., and Murphy, A. S. (2007).Flavonoids and auxin transport:modulators or regulators? *Trends Plant Sci.* 12, 556–563.
- Popa, V.I., C. Beleca, C. Agache dan M. Popa. 2002. Polyphenol from spruce bark as plant growth regulator. *Crop Resources*. Vol. 24 : 398-406
- Prabhu M, Kumar A.R., dan Rajamani, K. 2010. Influence of Different Organic Substances on Growth and Herb Yield of Sacred basil (*Ocimum sanctum* L) *Ind. Journal of Agriculture*. Res. 44(1):48-52
- Prahasta, A., 2009. *Budidaya, Usaha, Pengolahan Agribisnis Jagung*. Pustaka Grafika. Bandung.
- Prasetyo, B.H dan D.A. Suriadikarta. 2006. Karakteristik, Potensi, Dan Teknologi Pengelolaan Tanah Ultisol Untuk Pengembangan Pertanian Lahan Kering Di Indonesia. *Jurnal Litbang Pertanian*. Balai Besar Penelitian dan Pengembangan Sumberdaya Lahan Pertanian, Balai Penelitian Tanah. Bogor 16123
- Purwono, M. S dan H. Purnawati, 2007. *Budidaya 8 Jenis Tanaman Pangan Unggul*. Penebar Swadaya. Jakarta. 143 hal
- Ramu, K., and Nallamuthu, T. 2012. Effect of seaweed liquid fertilizers on the bio stimulant on early seed germination and growth parameters of *Oryza sativa* L. Centre for Advanced Studies in Botany, University of Madras, Guindy Campus, Chennai-600 025, India. *INT J CURR SCI* 2012, 3: 15-20

- Rotundo, A., M. Forlaniand C. dan Di Vaio. 2004. *Influence of shading net n vegetative and productive characteristics, gas exchange and chlorophyll content of the leaves in two blackberry (Rubus ulmifolius Schott).* (serial on line). <http://www.actahort.org/books/457/457-42.htm> (9 September 2004).
- Saifudin, A. 2014. *Senyawa Alam Metabolit Sekunder Teori, Konsep dan Teknik Pemurnian*. Ed. 1. Deepublish. Yogyakarta.
- Savithramma, N., Linga Rao, M., dan Suhrulatha, D. 2011. Screening Of Medicinal Plants For Secondary Metabolites. *Middle-east J. Sci. Res.* 8:579-584
- Singh, J., P. Singh, A. Gupta, S. Solanki, E. Sharma and R. Nema. 2012. qualitative estimation of the presence of bioactive compound in *Centella asiatica*: An important medicinal plant. *International Journal of Life Science and Medical Science*, 2(1): 5-7.
- Sirait, J. 2008. Luas Daun, Kandungan Klorofil dan Laju Pertumbuhan Rumput pada Naungan dan Pemupukan yang Berbeda. *JITV*. 13(2): 109-116.
- Soil Survey Staff. 2003. *Keys to Soil Taxonomy*. USDA, Natural Research Conservation Service. Ninth Edition. Washington D.C
- Solichatun, Anggarwulan E, Mudyantini W (2005) Pengaruh ketersediaan air terhadap pertumbuhan dan kandungan bahan aktif saponin tanaman ginseng Jawa (*Talinum paniculatum* Gaertn.). *Jurnal Biofarmasi* 3(2): 47-51
- Spencer, J. P. E., C. A. Rice-Evans, dan S. K. S. Srai. 2003. *Metabolism in the small intestine ang gastrointestinal tract. Flavonoids in Health and Disease*, Second Edition, Revised and Expanded. Marcell Dekker, Inc., New York.
- Stitt, M., Gibon, Y., Lunn, J.E. dan Piques, M. 2007. Multilevel Genomic Qualitative Estimation Of Presence Of Bioactive Compound In *Centella asiatica* : in *Important Medicinal Plant. International Journal Of Life Science And Medical Science*. 2(1) : 5-7
- Subagyo, H., N. Suharta, dan A.B. Siswanto. 2004. Tanah-tanah pertanian di Indonesia. hlm. 21–66. Pusat Penelitian dan Pengembangan Tanah dan Agroklimat, Bogor.
- Suganthi, A. dan K. Sujatha. 2014. Aqueous seaweed sprays for enhancement of growth and yield of sunflower hybrid CO2. *International Journal of Agriculture Innovations and Research*, 2(6): 2319-1473.
- Swastiratu, C. 2015. Inhibisi ekstrak pulai (*Alstonia scholaris*) terhadap Aktivitas siklooksigenase-2 Secara in vitro. Skripsi Biokimia. IPB. Bogor

- Syafni, N. (2007). Optimasi isolasi kaempferol dari paku resam (*Gleichenia liearis* (Burm.). Skripsi Sarjana Farmasi. Universitas Andalas. Padang
- Syafruddin. 2002. *Tolak ukur dan konsentrasi Al untuk penapisan tanaman jagung terhadap ketenggangan Al*. Berita Puslitbangtan 24: 3-4.
- Thomas P.S., Kanaujia A., Ghosh D., Duggar R., Katiyar C.K. 2008. Alstonoside, a secoiridoid glucoside from *Alstonia scholaris* Indian. J. Chem. B Org.; 47: 1298-1302.
- Thomas, S.G., Rieu, I. and Steber, C.M. (2005) *Gibberellin metabolism and signaling*. Vitam. Horm., 72, 289–338.
- Ummah, K. K., Noli, Z. A., Bakhtiar, A., & Mansyurdin. (2017). Test of certain plant crude extracts on the growth of upland rice (*Oryza sativa* L.). *International Journal of Current Research in Biosciences and Plant Biology*, 4(9), .1-6
- Utomo, M. 2002. Pengelolaan lahan kering untuk pertanian berkelanjutan. Makalah utama pada *Seminar Nasional IV Pengembangan Wilayah Lahan Kering Dan Pertemuan Ilmiah Tahunan Himpunan Ilmu Tanah Indonesia Di Mataram, 27-28 Mei 2002*.
- Wobeto C, Correa AD, Abreu CMP, Santos CD, Abreu JR. 2006. *Nutrients in the cassava (Manihot esculenta Crantz) leaf meal at three ages of the plant*. Cienc. Tecnol. Aliment., Campinas. 26 (4): 865-869.
- Yang, C., Zhang, C., Lu, Y., Jin, J., dan Wang, X. 2011. The Mechanisme Of Brassinosteroids Action ; From Signal Transduction To Plant Development. *Mol Plant Adv*. Pp. 1-13
- Zakiah, Z., Suliansyah, I., Bakhtiar, A., & Mansyurdin. 2017. Effect of crude extracts of six plants on vegetative growth of soybean (*Glycine max* Mer.). *International Journal of Advances in Agricultural Science and Technology*, 4(7), 1-12.